

# Summer Rat Genetics and Genomics (SuRGe) Workshop 2019

August 2<sup>nd</sup> and 3<sup>rd</sup>

Skaggs School of Pharmacy and Pharmaceutical Science  
University of Colorado Anschutz Medical Campus  
12850 E. Montview Blvd.  
Aurora, CO 80045

Friday, August 2<sup>nd</sup>

| <i>Time</i> | <i>Topic</i>                                     | <i>Presenter</i>    |
|-------------|--------------------------------------------------|---------------------|
| 8:30 am     | Group introductions                              |                     |
| 8:40 am     | Introduction to quantitative genetics            | Rob Williams        |
| 9:10 am     | Introduction to rat genomics and rat populations | Laura Saba          |
| 9:30 am     | Introduction to dry lab notebooks                | Saunak Sen          |
| 10:00 am    | BREAK – Coffee/pastries provided                 |                     |
|             | <u>Identifying a genomic region</u>              |                     |
| 10:15 am    | - RGD (literature based)                         | Jennifer Smith, RGD |
| 11:15 am    | - GN2 (dynamic mapping including GEMMA)          | Saunak Sen          |
| 12:00 pm    | LUNCH – box lunches provided in meeting room     |                     |
|             | <u>Interrogating a genomic region</u>            |                     |
| 1:00 pm     | - RGD                                            | Jennifer Smith, RGD |
| 2:00 pm     | - GeneNetwork                                    | Rob Williams        |
| 3:00 pm     | BREAK                                            |                     |
| 3:15 pm     | - PhenoGen (genome browser/eQTL)                 | Spencer Mahaffey    |
| 4:15 pm     | - GeneWeaver                                     | TBD                 |
| 5:00 pm     | - Human GWAS (GWAS Atlas, FUMA)                  | Rob Williams        |
| 5:30 pm     | Return to hotel                                  |                     |
| 6:30 pm     | Group Dinner – Comida at Stanley Marketplace     |                     |

## Friday Night Dinner at 6:30 pm

Comida at Stanley Marketplace  
2501 Dallas Street, Suite 140  
Aurora, Colorado 80010  
(<3 miles)

Saturday, August 3<sup>rd</sup>

| <i>Time</i> | <i>Topic</i>                                                                               | <i>Presenter</i>    |
|-------------|--------------------------------------------------------------------------------------------|---------------------|
|             | <u><i>Examining your favorite gene(s)</i></u>                                              |                     |
| 8:30 am     | - RGD                                                                                      | Jennifer Smith, RGD |
| 9:30 am     | - PhenoGen                                                                                 | Laura Saba          |
| 10:30 am    | BREAK – Coffee/pastries provided                                                           |                     |
| 10:45 am    | - GeneNetwork                                                                              | Rob Williams        |
| 11:45 am    | LUNCH – Cedar Creek Pub                                                                    |                     |
| 12:45 pm    | - OPAR/Chilibot/RatsPub                                                                    | Saunak Sen          |
| 1:30 pm     | - Allan Brain Atlas                                                                        | Rob Williams        |
| 2:00 pm     | - Human Translation using FUMA                                                             | Rob Williams        |
| 2:30 pm     | BREAK/PRESENTATION PREP                                                                    |                     |
| 4:00 pm     | Participant Presentation (could do groups – 15-20 minute presentation (5-6 presentations)) |                     |
| 5:30 pm     | Closing Reception – Ursula Brewery                                                         |                     |
| 6:30 pm     | Return to hotel                                                                            |                     |

**Saturday Lunch at 11:45 am**

Cedar Creek Pub  
2100 North Ursula Street  
Aurora, Colorado  
(walking distance from School of Pharmacy)

**Saturday Closing Reception at 5:30 pm**

Ursula Brewery  
2101 N Ursula St. Unit 10  
Aurora CO, 80045  
(walking distance from School of Pharmacy)

Students are asked to be bring:

- A laptop computer for hands-on exercises
- A gene/gene list and genomic region of interest (some examples will be made available)